

FIG. 1

PRIMARY KEY	COLUMN A	COLUMN B	COLUMN C	COLUMN D	COLUMN E
1	DATA	DATA	DATA	DATA	DATA
2	DATA	DATA	DATA	DATA	DATA
3	DATA	DATA	DATA	DATA	DATA
4	DATA	DATA	DATA	DATA	DATA
5	DATA	DATA	DATA	DATA	DATA
6	DATA	DATA	DATA	DATA	DATA
7	DATA	DATA	DATA	DATA	DATA
8	DATA	DATA	DATA	DATA	DATA
9	DATA	DATA	DATA	DATA	DATA
10	DATA	DATA	DATA	DATA	DATA
11	DATA	DATA	DATA	DATA	DATA
12	DATA	DATA	DATA	DATA	DATA

124

FIG. 2A

154A

$\begin{array}{c} \updownarrow \\ R \times C \\ (3 \times 10) \end{array}$	CONVENTIONAL SELECTED DATA DESCRIPTION	
	PRIMARY KEY	COLUMN
	2	COLUMN B
	2	COLUMN C
	2	COLUMN D
	3	COLUMN B
	...	...
	11	COLUMN D

3/10

122

125

PRIMARY KEY	COLUMN A	COLUMN B	COLUMN C	COLUMN D	COLUMN E
1	DATA	DATA	DATA	DATA	DATA
2	DATA	DATA	DATA	DATA	DATA
3	DATA	DATA	DATA	DATA	DATA
4	DATA	DATA	DATA	DATA	DATA
5	DATA	DATA	DATA	DATA	DATA
6	DATA	DATA	DATA	DATA	DATA
7	DATA	DATA	DATA	DATA	DATA
8	DATA	DATA	DATA	DATA	DATA
9	DATA	DATA	DATA	DATA	DATA
10	DATA	DATA	DATA	DATA	DATA
11	DATA	DATA	DATA	DATA	DATA
12	DATA	DATA	DATA	DATA	DATA

124

127

FIG. 2B

154B

EDGE DEFINITION	
PRIMARY KEY	COLUMN
2	COLUMN B
2	COLUMN C
2	COLUMN D
2	COLUMN D
3	COLUMN D
4	COLUMN D
...	...
11	COLUMN D

$R + C$   
 $(10 + 3)$

125

EDGE 1

127

EDGE 2

PRIMARY KEY	COLUMN A	COLUMN B	COLUMN B'	COLUMN C	COLUMN D	COLUMN E
1	DATA	DATA	DATA	DATA	DATA	DATA
2	DATA	<del>DATA</del>	DATA	<del>DATA</del>	<del>DATA</del>	DATA
3	DATA	<del>DATA</del>	DATA	<del>DATA</del>	<del>DATA</del>	DATA
4	DATA	<del>DATA</del>	DATA	<del>DATA</del>	<del>DATA</del>	DATA
5	DATA	<del>DATA</del>	DATA	<del>DATA</del>	<del>DATA</del>	DATA
5.5	DATA	DATA	DATA	DATA	DATA	DATA
6	DATA	<del>DATA</del>	DATA	<del>DATA</del>	<del>DATA</del>	DATA
7	DATA	<del>DATA</del>	DATA	<del>DATA</del>	<del>DATA</del>	DATA
8	DATA	<del>DATA</del>	DATA	<del>DATA</del>	<del>DATA</del>	DATA
9	DATA	<del>DATA</del>	DATA	<del>DATA</del>	<del>DATA</del>	DATA
10	DATA	<del>DATA</del>	DATA	<del>DATA</del>	<del>DATA</del>	DATA
11	DATA	<del>DATA</del>	DATA	<del>DATA</del>	<del>DATA</del>	DATA
12	DATA	DATA	DATA	DATA	DATA	DATA

FIG. 2C

154C

EDGE DEFINITION ( CONTIGUOUS )	
PRIMARY KEY LIST	2,3,4,5,6,7,8,9,10,11
COLUMN LIST	B,C,D

PRIMARY KEY	COLUMN A	COLUMN B	COLUMN C	COLUMN D	COLUMN E	COLUMN F	COLUMN G
1	DATA	DATA	DATA	DATA	DATA	DATA	DATA
2	DATA	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	DATA
3	DATA	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	DATA
4	DATA	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	DATA
5	DATA	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	DATA
6	DATA	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	DATA
7	DATA	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	DATA
8	DATA	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	DATA
9	DATA	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	DATA
10	DATA	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	DATA
11	DATA	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	<del>DATA</del>	DATA
12	DATA	DATA	DATA	DATA	DATA	DATA	DATA

FIG. 2D

EDGE DEFINITION ( DISCONTIGUOUS )			
	PARTITION 1	PARTITION 2	PARTITION 3
PRIMARY KEY LIST	2,3,4,5	6,7	8,9,10,11
COLUMN LIST	B,C,D,E,F	B,C	E,F

154D

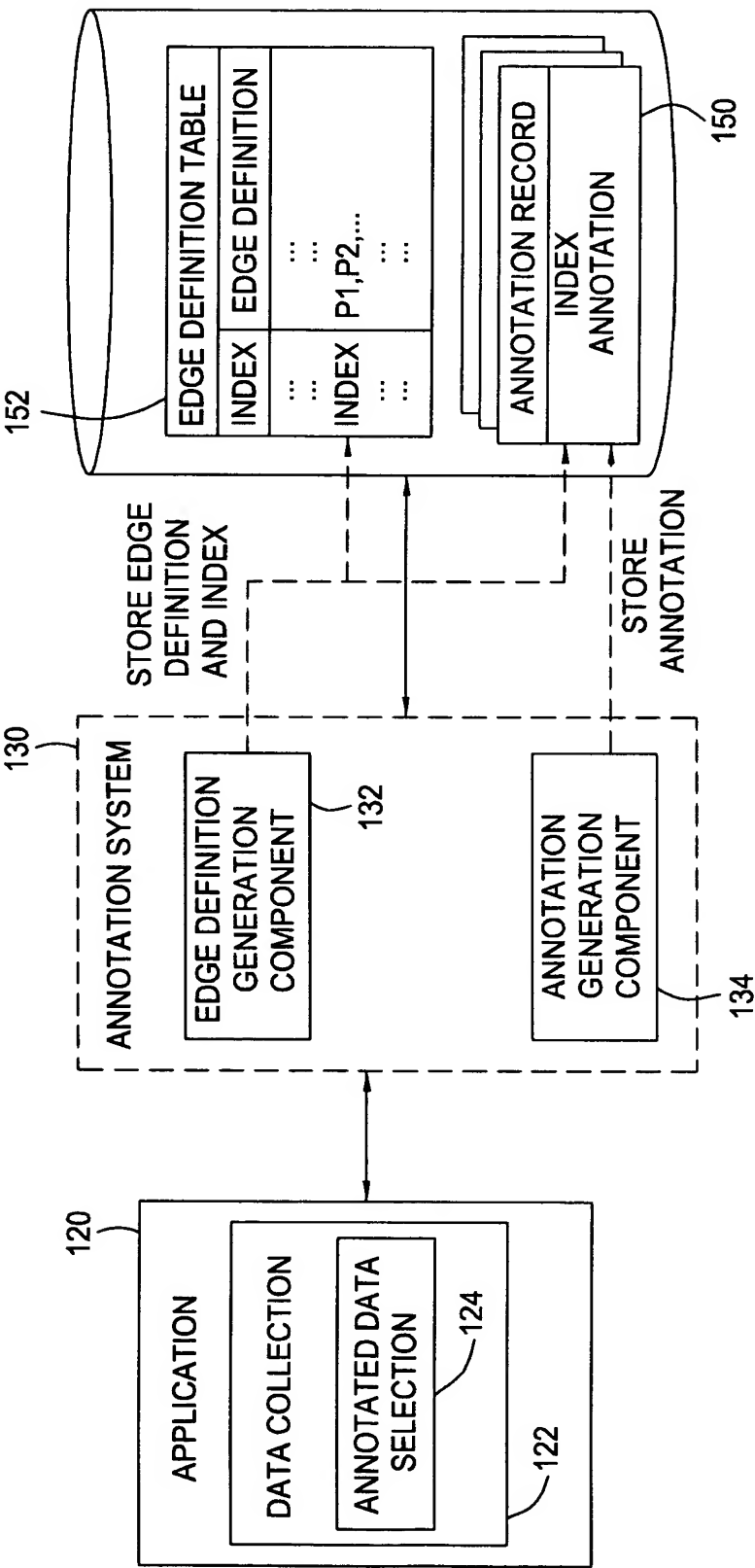


FIG. 3

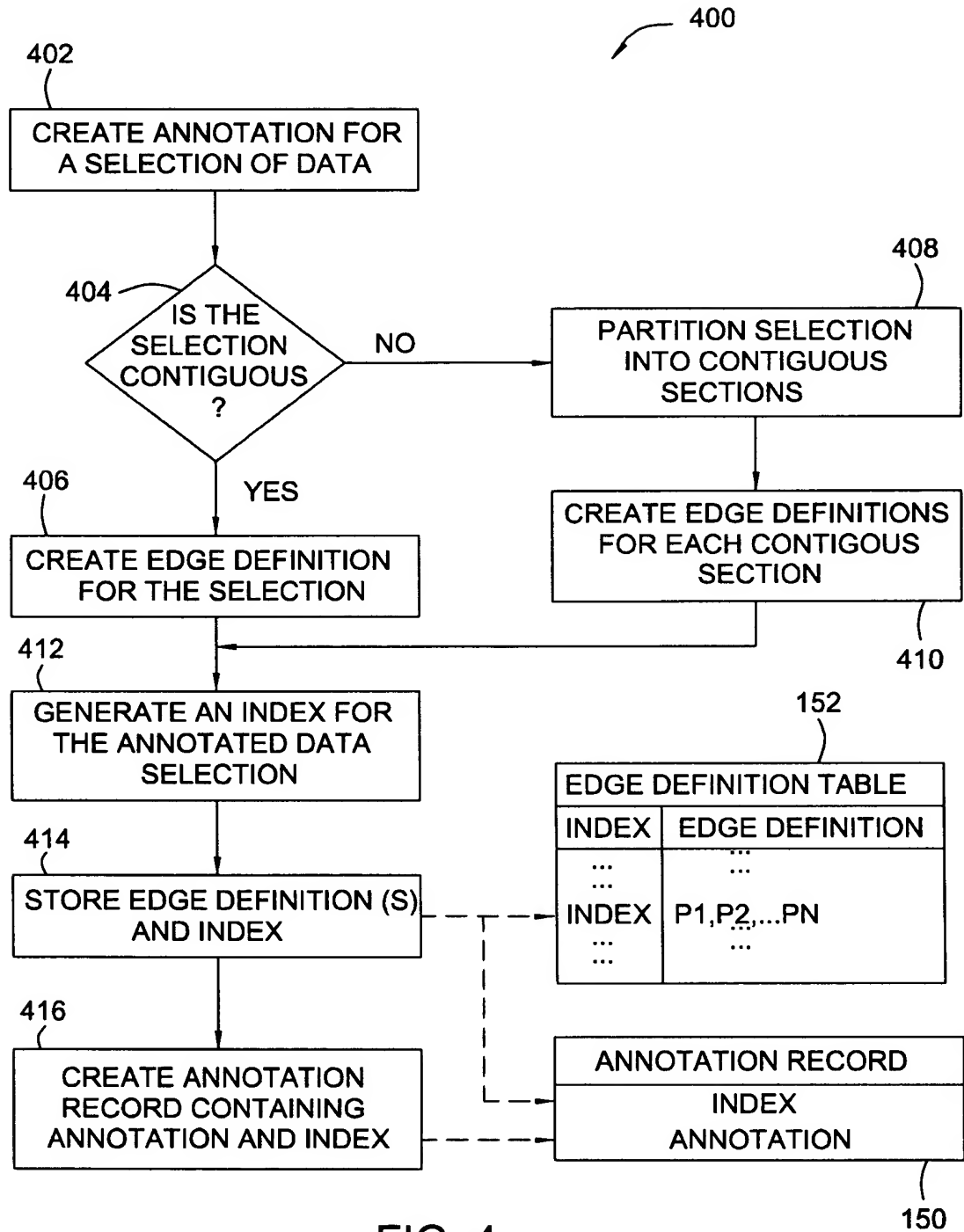


FIG. 4

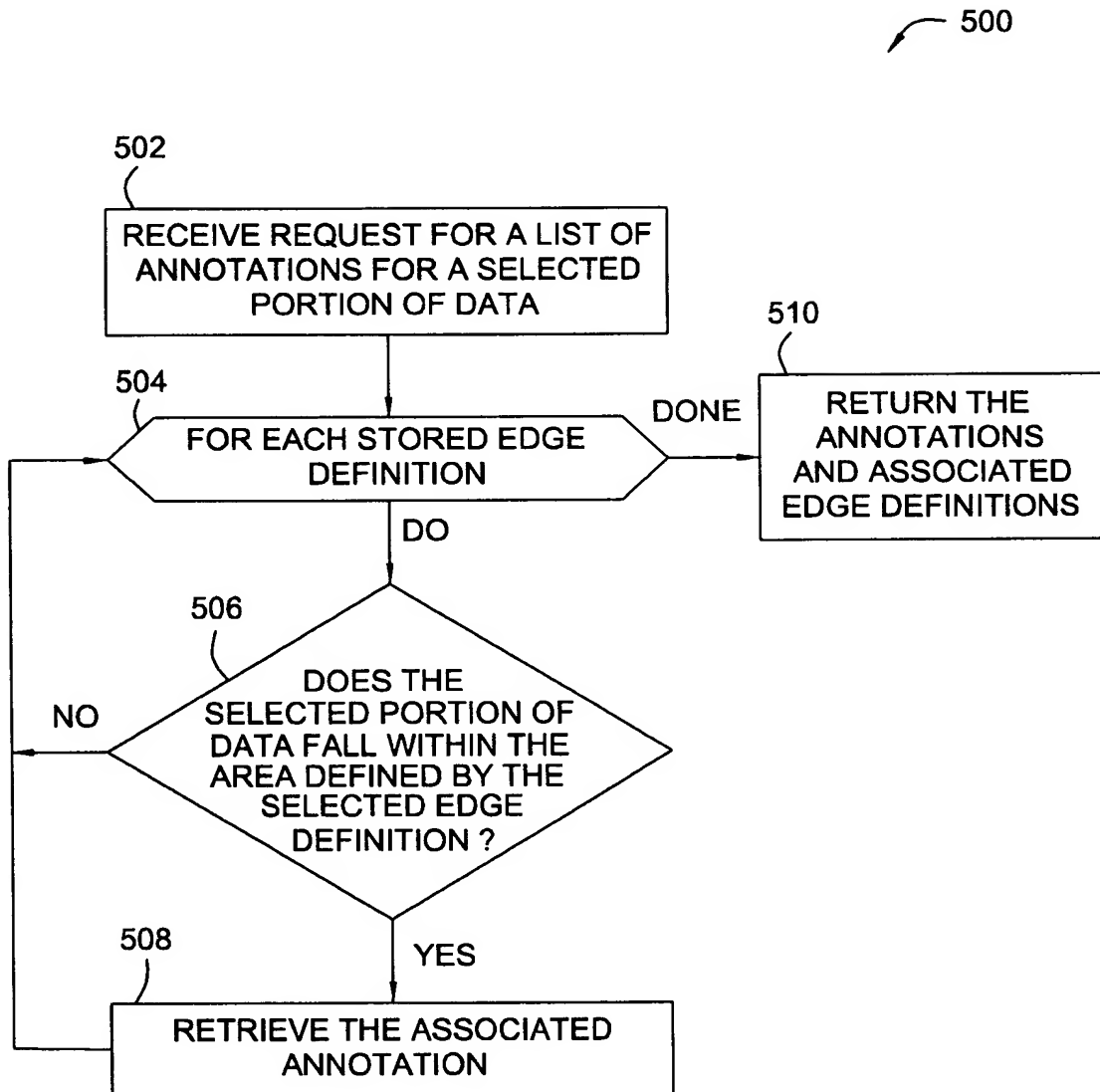


FIG. 5



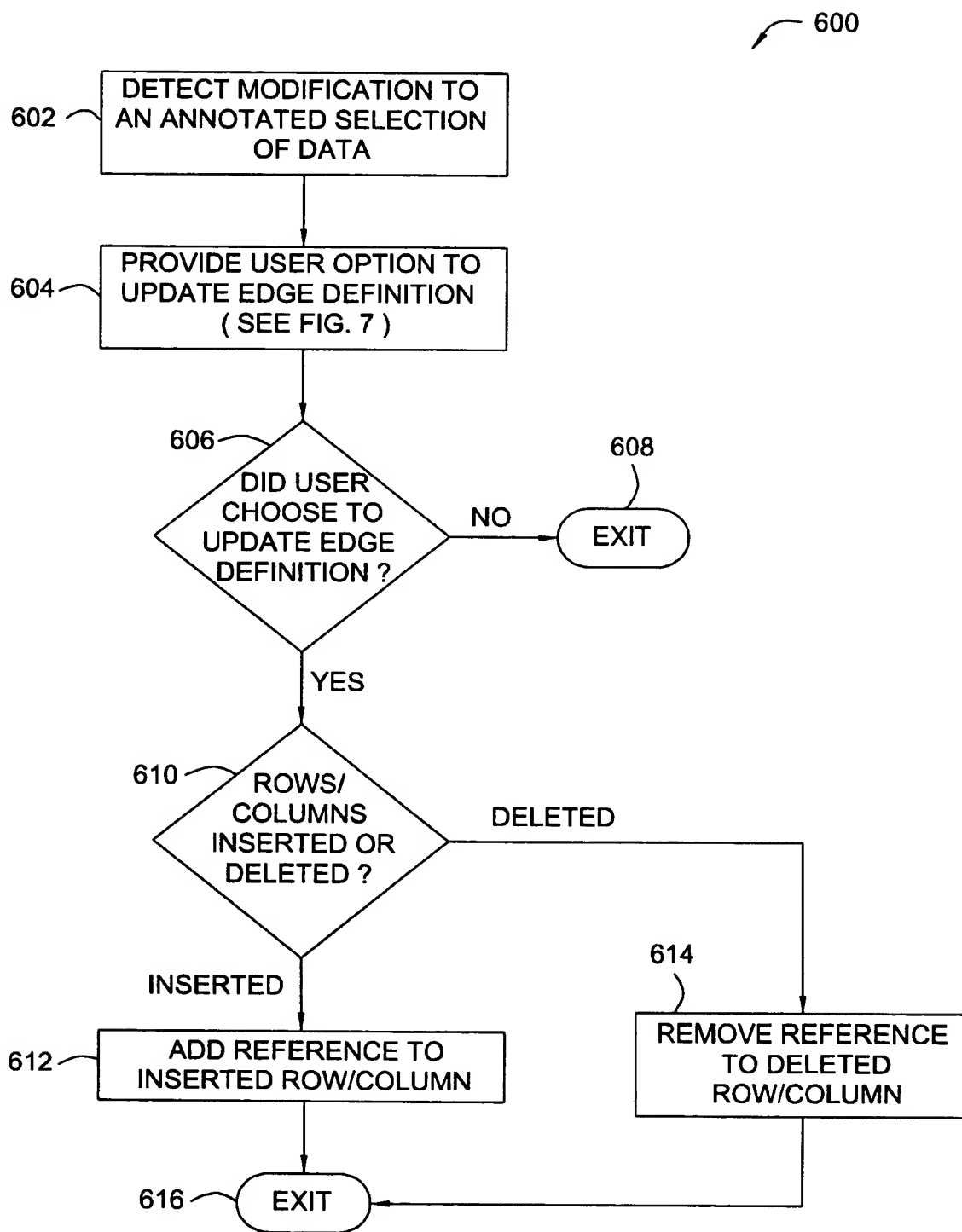


FIG. 6

700

AN ANNOTATED DATA SELECTION HAS BEEN MODIFIED		
MODIFICATION: INSERTION OF COLUMN "TEST A RESULTS"		
<input checked="" type="radio"/>	UPDATE EDGE DEFINITION TO REFLECT MODIFICATION	
<input type="radio"/>	MAINTAIN CURRENT EDGE DEFINITION AND ANNOTATION	
<input type="radio"/>	EDIT ANNOTATION	
<input type="radio"/>	DELETE ANNOTATION	
<input type="button" value="OK"/>	<input type="button" value="CANCEL"/>	<input type="button" value="VIEW ANNOTATION"/>

702

FIG. 7